Bruhat Bangalore Mahanagara Palike

Executive Engineer
Yelhanka Division

DETAILED ESTIMATE

Name of Work: Costruction of CC road at Kamakshamma layout western side main and cross roads and Chowdeshwari layout main road and cross roads in ward no-02 of Yelhanka subdivision.

PROJECT COST: 99.90 Lakhs

Mecadez Core Technologies Private limited

Project Management and Consultancy Services

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BRUHAT BANAGLORE MAHANAGARA PALIKE

Executive Engineer-Yelhanka Division

Detailed Estimate

Name of Work: Costruction of CC road at Kamakshamma layout western side main and cross roads and Chowdeshwari layout main road and cross roads in ward no-02 of Yelhanka subdivision

			Estimate Amount :	9990000.00					
Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	CIVIL WORKS								
1	Removing Slab of drain and Stacking **(Page No 25., I.No.5.32 of KPWD S.R 2015-16).**								
		Sqm							
	COVER SLAB								
	Kamakshama layout								
	3rd cross								
	Ch: (0 - 48)	B/s	2	48	0.60		57.60		
	Ch: (55 - 112)	B/s	2	57	0.60		68.40		
	4th cross								
	Ch: (0 - 25)	L/s	1	25	0.90		22.50		
	Ch: (32 - 143)	L/s	1	111	0.90		99.90		
	Ch: (0 - 25)	R/s	1	25	0.70		17.50		
	Ch: (32 - 88)	R/s	1	56	0.70		39.20		
	Ch: (96 - 143)	R/s	1	47	0.70		32.90		
	Cross road -1								
	Ch: (18 - 58)	L/s	1	40	0.70		28.00		
	Ch: (0 - 69)	R/s	1	69	0.80		55.20		
	7th cross from 1st cross to 4th cross								
	Ch: (32 - 58)	B/s	2	26	0.60		31.20		
	Ch: (66 - 91)	B/s	2	25	0.60		30.00		
	8th cross from 3rd cross to cross road-1								
	Ch: (0 - 25)	B/s	2	25	0.70		35.00		
	Ch: (33 - 50)	B/s	2	17	0.70		23.80		
	Ch: (55 - 92)	B/s	2	37	0.70		51.80		
	5th cross from 2nd main to end road								
	Ch: (0 - 106)	L/s	1	106	0.60		63.60		
	Ch: (109 - 129)	L/s	1	20	0.70		14.00		
	Ch: (134 - 176)	L/s	1	42	0.70		29.40		
	Ch: (26 - 106)	R/s	1	80	0.60		48.00		
	Ch: (109 - 129)	R/s	1	20	0.60		12.00		
	4th cross from end road to 2nd main								
	Ch: (73 - 186)	L/s	1	113	0.90		101.70		
	Ch: (0 - 44)	R/s	1	44	0.70		30.80		
	Ch: (73 - 186)	R/s	1	113	0.70		79.10		
	3rd cross from 2nd main to end road								
	Ch: (0 - 55)	L/s	1	55	0.90		49.50		
	Ch: (55 - 113)	L/s	1	58	0.90		52.20		
	Ch: (60 - 113)	R/s	1	53	0.60		31.80		
	2nd cross from 2nd main to end road								
	Ch: (0 - 54)	R/s	1	54	0.90		48.60		
	1st cross from 2nd amin to end road								
	Ch: (16-64)	L/s	1	48	0.90		43.20		
	Ch: (0 - 38)	R/s	1	38	0.90		34.20		
							1231.10	**63.72**	**78445.69**

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
2	Refixing Slabs of drains and Pointing in C.M(1:3) **(Page No 25., I.No.5.33 of KPWD S.R 2015-16).**								
		Sqm							
	COVER SLAB								
	Kamakshama layout								
	3rd cross								
	Ch. (0 - 48)	B/s	2	48	0.60		57.60		
	Ch. (55 - 112)	B/s	2	57	0.60		68.40		
	4th cross								
	Ch. (0 - 25)	L/s	1	25	0.90		22.50		
	Ch. (32 - 143)	L/s	1	111	0.90		99.90		
	Ch. (0 - 25)	R/s	1	25	0.70		17.50		
	Ch. (32 - 88)	R/s	1	56	0.70		39.20		
	Ch. (96 - 143)	R/s	1	47	0.70		32.90		
	Cross road -1								
	Ch. (18 - 58)	L/s	1	40	0.70		28.00		
	Ch. (0 - 69)	R/s	1	69	0.80		55.20		
	7th cross from 1st cross to 4th cross								
	Ch. (32 - 58)	B/s	2	26	0.60		31.20		
	Ch. (66 - 91)	B/s	2	25	0.60		30.00		
	8th cross from 3rd cross to cross road-1								
	Ch. (0 - 25)	B/s	2	25	0.70		35.00		
	Ch. (33 - 50)	B/s	2	17	0.70		23.80		
	Ch. (55 - 92)	B/s	2	37	0.70		51.80		
	5th cross from 2nd main to end road								
	Ch. (0 - 106)	L/s	1	106	0.60		63.60		
	Ch. (109 - 129)	L/s	1	20	0.70		14.00		
	Ch. (134 - 176)	L/s	1	42	0.70		29.40		
	Ch. (26 - 106)	R/s	1	80	0.60		48.00		
	Ch. (109 - 129)	R/s	1	20	0.60		12.00		
	4th cross from end road to 2nd main								
	Ch. (73 - 186)	L/s	1	113	0.90		101.70		
	Ch. (0 - 44)	R/s	1	44	0.70		30.80		
	Ch. (73 - 186)	R/s	1	113	0.70		79.10		
	3rd cross from 2nd main to end road								
	Ch. (0 - 55)	L/s	1	55	0.90		49.50		
	Ch. (55 - 113)	L/s	1	58	0.90		52.20		
	Ch. (60 - 113)	R/s	1	53	0.60		31.80		
	2nd cross from 2nd main to end road								
	Ch. (0 - 54)	R/s	1	54	0.90		48.60		
	1st cross from 2nd amin to end road								
	Ch. (16 - 64)	L/s	1	48	0.90		43.20		
	Ch. (0 - 38)	R/s	1	38	0.90		34.20		
							1231.10		
	Deduction for damaged 27%						-307.78		
							923.33	**78.84**	**72794.94**
3	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								
		Sqm							
	Missing slab								
	7th cross from 1st cross to 4th cross								
	Ch. (0 - 25)	B/s	2	25	0.60		30.00		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	New Drain								
	1st cross								
	Ch: (0 - 56)	B/s	2	56	0.90		100.80		
	2nd cross								
	Ch: (0 - 46)	B/s	2	46	0.90		82.80		
	Ch: (55 - 96)	B/s	2	41	0.90		73.80		
	For Damaged portion						307.78		
							595.18	**1834.00**	**1091550.95**
4	KSRRB 300-1. **Earthwork excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No141., I.No.19.1 of KPWD S.R 2015-16).**								
		Cum							
	Desilting								
	Kamakshama layout								
	3rd cross								
	Ch: (0 - 48)	B/s	2	48	0.40	0.600	23.04		
	Ch: (55 - 112)	B/s	2	57	0.40	0.600	27.36		
	4th cross								
	Ch: (0 - 25)	L/s	1	25	0.40	0.600	6.00		
	Ch: (32 - 143)	L/s	1	111	0.40	0.600	26.64		
	Ch: (0 - 25)	R/s	1	25	0.40	0.600	6.00		
	Ch: (32 - 88)	R/s	1	56	0.40	0.600	13.44		
	Ch: (96 - 143)	R/s	1	47	0.40	0.600	11.28		
	Cross road -1								
	Ch: (18 - 58)	L/s	1	40	0.40	0.600	9.60		
	Ch: (0 - 69)	R/s	1	69	0.40	0.600	16.56		
	7th cross from 1st cross to 4th cross								
	Ch: (32 - 58)	B/s	2	26	0.40	0.600	12.48		
	Ch: (66 - 91)	B/s	2	25	0.40	0.600	12.00		
	8th cross from 3rd cross to cross road-1								
	Ch: (0 - 25)	B/s	2	25	0.40	0.600	12.00		
	Ch: (33 - 50)	B/s	2	17	0.40	0.600	8.16		
	Ch: (55 - 92)	B/s	2	37	0.40	0.600	17.76		
	5th cross from 2nd main to end road								
	Ch: (0 - 106)	L/s	1	106	0.40	0.500	21.20		
	Ch: (109 - 129)	L/s	1	20	0.40	0.500	4.00		
	Ch: (134 - 176)	L/s	1	42	0.40	0.500	8.40		
	Ch: (26 - 106)	R/s	1	80	0.40	0.500	16.00		
	Ch: (109 - 129)	R/s	1	20	0.40	0.500	4.00		
	4th cross from end road to 2nd main								
	Ch: (73 - 186)	L/s	1	113	0.50	0.600	33.90		
	Ch: (0 - 44)	R/s	1	44	0.40	0.500	8.80		
	Ch: (73 - 186)	R/s	1	113	0.40	0.500	22.60		
	3rd cross from 2nd main to end road								
	Ch: (0 - 55)	L/s	1	55	0.50	0.600	16.50		
	Ch: (55 - 113)	L/s	1	58	0.50	0.600	17.40		
	Ch: (60 - 113)	R/s	1	53	0.40	0.500	10.60		
	2nd cross from 2nd main to end road								
	Ch: (0 - 54)	R/s	1	54	0.50	0.600	16.20		
	1st cross from 2nd amin to end road								
	Ch: (16 - 64)	L/s	1	48	0.50	0.600	14.40		
	Ch: (0 - 38)	R/s	1	38	0.50	0.600	11.40		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Kamakshama layout								
	New Drain								
	Cross road-1								
	Ch: (0 - 56)	B/s	2	56	1.20	0.900	120.96		
	cross road-2								
	Ch: (0 - 46)	B/s	2	46	1.20	0.900	99.36		
	Ch: (55 - 96)	B/s	2	41	1.20	0.900	88.56		
	New Culvert								
	7th cross								
			2	8	1.50	0.800	19.20		
							735.80	**168.76**	**124173.61**
5	KSRB 4-1.2 : Providing and laying in **position plain cement concrete of mix1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 **(Page No 12., I.No.4.2 of KPWD S.R 2015-16).**								
		Cum							
	Kamakshama layout								
	New Drain								
	cross road-1								
	Ch: (0 - 56)	B/s	2	56	0.90	0.100	10.08		
	cross road-2								
	Ch: (0 - 46)	B/s	2	46	0.90	0.100	8.28		
	Ch: (55 - 96)	B/s	2	41	0.90	0.100	7.38		
	New Culvert								
	7th cross								
			2	8	1.20	0.100	1.92		
							27.66	**5236.92**	**144853.21**
6	Providing and laying **Plain /reinforced cement concreteM20** for Box drain walls of thickness 10cm to 20cm including centring shuttering for work etc. complete as per approved drawing and design MORTH specification No.1500,1700,2200 **(Page No258., I.No.37.59.2 of KPWD S.R 2014-15).**								
		Cum							
	RAFT								
	Kamakshama layout								
	New Drain								
	cross road-1								
	Ch: (0 - 56)	B/s	2	56	0.90	0.150	15.12		
	cross road-2								
	Ch: (0 - 46)	B/s	2	46	0.90	0.150	12.42		
	Ch: (55 - 96)	B/s	2	41	0.90	0.150	11.07		
	New Culvert								
	7th cross								
			2	8	1.20	0.200	3.84		
	WALL								
	Kamakshama layout								
	New Drain								
	cross road-1								
	Ch: (0 - 56)	B/s	4	56	0.15	0.900	30.24		
	cross road-2								
	Ch: (0 - 46)	B/s	4	46	0.15	0.900	24.84		
	Ch: (55 - 96)	B/s	4	41	0.15	0.900	22.14		
	New Culvert								
	7th cross								
			4	8	0.20	0.800	5.12		
							124.79	**6931.44**	**864974.40**

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
7	KSRB 4.9.2 : Providing **T .M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500 **(Page No 17., I.No.4.46.2 of KPWD S.R 2014-15).**								
		Tonne							
	from above item								
	For Drain			124.79*60 /1000			7.49		
							7.49	**69805.80**	**522663.95**
8	Providing **precast slab** of **250mm thick** including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge- Data rate								
		Sqm							
	New Culvert								
	7th cross								
			2	8	1.20		19.20		
							19.20	**5111.00**	**98131.20**

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	ROAD WORKS								
9	KSRRB M300-14. **Excavation for roadwork** in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 **(Page No 142., I.No.19.14 of KPWD S.R 2015-16).**								
		Cum							
	Kamakshama layout								
	5th cross from 2nd main to end road								
	Ch: (0 - 176)		1	176	4.50	0.400	316.80		
	4th cross from end road to 2nd main								
	Ch: (58 - 186)		1	128	1.00	0.400	51.20		
	3rd cross from 2nd main to end road								
	Ch: (0 - 55)		1	55	4.50	0.400	99.00		
	Ch: (55 - 113)		1	58	4.30	0.400	99.76		
	2nd cross from 2nd main to end road								
	Ch: (0 - 54)		1	54	1.00	0.400	21.60		
							588.36	**134.20**	**78957.91**
10	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (Page No 148., I.No.19.64 of KPWD S.R 2015-16).								
		Cum							
	Kamakshama layout								
	5th cross from 2nd main to end road								
	Ch: (0 - 176)		1	176	4.50		792.00		
	4th cross from end road to 2nd main								
	Ch: (58 - 186)		1	128	1.00		128.00		
	3rd cross from 2nd main to end road								
	Ch: (0 - 55)		1	55	4.50		247.50		
	Ch: (55 - 113)		1	58	4.30		249.40		
	2nd cross from 2nd main to end road								
	Ch: (0 - 54)		1	54	1.00		54.00		
							1470.90	**4.86**	**7148.57**
11	KSRRB M400-6.1. Construction of **granular sub-base** by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material **(Page No 154., I.No.20.4.2 of KPWD S.R 2015-16).**								
		Cum							
	Kamakshama layout								
	5th cross from 2nd main to end road								
	Ch: (0 - 176)		1	176	4.50	0.150	118.80		
	4th cross from end road to 2nd main								
	Ch: (58 - 186)		1	128	1.00	0.200	25.60		
	3rd cross from 2nd main to end road								
	Ch: (0 - 55)		1	55	4.50	0.150	37.13		
	Ch: (55 - 113)		1	58	4.30	0.150	37.41		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	2nd cross from 2nd main to end road								
	Ch: (0 - 54)		1	54	1.00	0.200	10.80		
							229.74	**1622.16**	**372666.93**
12	KSRRB M600-1. Construction of **dry lean cement concrete mix M5** with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383,) aggregate cement ratio not to exceed 15:1,aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 **(Page No,-173, I.No.22.1 of KPWD S.R 2015-16)**								
		Cum							
	Kamakshama layout								
	3rd cross								
	Ch: (0 - 119)		8	1	2.00	0.100	1.60		
	4th cross								
	Ch: (0 - 25)		5	2	2.00	0.100	2.00		
	5th cross from 2nd main to end road								
	Ch: (0 - 176)		1	176	4.50	0.100	79.20		
	4th cross from end road to 2nd main								
	Ch: (0 - 58)								
			1	1	1.00	0.100	0.10		
			1	2	2.00	0.100	0.40		
			1	3	3.00	0.100	0.90		
			1	5	3.00	0.100	1.50		
	Ch: (58 - 186)		1	128	1.00	0.100	12.80		
	3rd cross from 2nd main to end road								
	Ch: (0 - 55)		1	55	4.50	0.100	24.75		
	Ch: (55 - 113)		1	58	4.30	0.100	24.94		
	2nd cross from 2nd main to end road								
	Ch: (0 - 54)		1	54	1.00	0.100	5.40		
							153.59	**3900.96**	**599148.45**
13	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 **design mix M30**(at 360 kg per cum coarse aggregate @ 0.69 cum and fine aggregate @0.46 cum) , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 eaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications.**(Page No 174., I.No.22.6.1 of KPWD S.R 2015-16).**								
		Cum							
	Kamakshama layout								
	1st cross								
	Ch: (0 - 56)		1	56	4.50	0.150	37.80		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (56 - 72)		1	16	3.00	0.150	7.20		
	2nd cross								
	Ch: (0 - 96)		1	96	5.70	0.150	82.08		
	3rd cross								
	Ch: (0 - 55)		1	55	5.60	0.150	46.20		
	Ch: (55 - 119)		1	64	6.30	0.150	60.48		
	4th cross								
	Ch: (0 - 25)		1	25	3.30	0.150	12.38		
	Ch: (25 - 143)		1	118	6.20	0.150	109.74		
	Cross road -1								
	Ch: (0 - 18)		1	18	4.40	0.150	11.88		
	Ch: (18 - 69)		1	51	5.80	0.150	44.37		
	7th cross from 1st cross to 4th cross								
	Ch: (0 - 25)		1	25	3.30	0.150	12.38		
	Ch: (32 - 58)		1	26	6.20	0.150	24.18		
	Ch: (66 - 91)		1	25	3.30	0.150	12.38		
	8th cross from 3rd cross to cross road-1								
	Ch: (0 - 25)		1	25	3.30	0.150	12.38		
	Ch: (33 - 50)		1	17	6.20	0.150	15.81		
	Ch: (55 - 92)		1	37	3.30	0.150	18.32		
	5th cross from 2nd main to end road								
	Ch: (0 - 135)		1	135	4.50	0.150	91.13		
	Ch: (135 - 176)		1	41	4.00	0.150	24.60		
	4th cross from end road to 2nd main								
	Ch: (0 - 16)		1	16	2.50	0.150	6.00		
	Ch: (16 - 45)		1	29	3.80	0.150	16.53		
	Ch: (45 - 58)		1	13	5.80	0.150	11.31		
	Ch: (58 - 186)		1	128	4.50	0.150	86.40		
	3rd cross from 2nd main to end road								
	Ch: (0 - 55)		1	55	4.50	0.150	37.13		
	Ch: (55 - 113)		1	58	4.30	0.150	37.41		
	2nd cross from 2nd main to end road								
	Ch: (0 - 54)		1	54	3.00	0.150	24.30		
	1st cross from 2nd amin to end road								
	Ch: (0 - 16)		1	16	4.20	0.150	10.08		
	Ch: (16 - 52)		1	36	4.00	0.150	21.60		
	Ch: (52 - 64)		1	12	2.50	0.150	4.50		
							878.54	**5957.28**	**5233678.98**
14	**Providing groove cutting** for Concrete pavement width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications.**(Page No 172., I.No.22.8 of KPWD S.R 2014-15).**								
		Rmt							
	LONGITUDINAL								
	Kamakshama layout								
	1st cross								
	Ch: (0 - 56)		1	56			56.00		
	Ch: (56 - 72)		1	16			16.00		
	2nd cross								
	Ch: (0 - 96)		1	96			96.00		
	3rd cross								
	Ch: (0 - 55)		1	55			55.00		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (55 - 119)		1	64			64.00		
	4th cross								
	Ch: (0 - 25)		1	25			25.00		
	Ch: (25 - 143)		1	118			118.00		
	Cross road -1								
	Ch: (0 - 18)		1	18			18.00		
	Ch: (18 - 69)		1	51			51.00		
	7th cross from 1st cross to 4th cross								
	Ch: (0 - 25)		1	25			25.00		
	Ch: (32 - 58)		1	26			26.00		
	Ch: (66 - 91)		1	25			25.00		
	8th cross from 3rd cross to cross road-1								
	Ch: (0 - 25)		1	25			25.00		
	Ch: (33 - 50)		1	17			17.00		
	Ch: (55 - 92)		1	37			37.00		
	5th cross from 2nd main to end road								
	Ch: (0 - 135)		1	135			135.00		
	Ch: (135 - 176)		1	41			41.00		
	4th cross from end road to 2nd main								
	Ch: (0 - 16)		1	16			16.00		
	Ch: (16 - 45)		1	29			29.00		
	Ch: (45 - 58)		1	13			13.00		
	Ch: (58 - 186)		1	128			128.00		
	3rd cross from 2nd main to end road								
	Ch: (0 - 55)		1	55			55.00		
	Ch: (55 - 113)		1	58			58.00		
	2nd cross from 2nd main to end road								
	Ch: (0 - 54)		1	54			54.00		
	1st cross from 2nd amin to end road								
	Ch: (0 - 16)		1	16			16.00		
	Ch: (16 - 52)		1	36			36.00		
	Ch: (52 - 64)		1	12			12.00		
	LATERAL								
	1st cross								
	Ch: (0 - 56)		16	4.50			72.00		
	Ch: (56 - 72)		5	3.00			15.00		
	2nd cross		0						
	Ch: (0 - 96)		27	5.70			153.90		
	3rd cross		0						
	Ch: (0 - 55)		16	5.60			89.60		
	Ch: (55 - 119)		18	6.30			113.40		
	4th cross		0						
	Ch: (0 - 25)		7	3.30			23.10		
	Ch: (25 - 143)		34	6.20			210.80		
	Cross road -1		0						
	Ch: (0 - 18)		5	4.40			22.00		
	Ch: (18 - 69)		15	5.80			87.00		
	7th cross from 1st cross to 4th cross		0						
	Ch: (0 - 25)		7	3.30			23.10		
	Ch: (32 - 58)		7	6.20			43.40		
	Ch: (66 - 91)		7	3.30			23.10		
	8th cross from 3rd cross to cross road-1		0						
	Ch: (0 - 25)		7	3.30			23.10		

Sl. No.	Particulars	Unit / Rate	Nos	L in m	B in m	D in m	Quantity	Rate in Rs	Total Amount in Rs
	Ch: (33 - 50)		5	6.20			31.00		
	Ch: (55 - 92)		11	3.30			36.30		
	5th cross from 2nd main to end road		0						
	Ch: (0 - 135)		39	4.50			175.50		
	Ch: (135 - 176)		12	4.00			48.00		
	4th cross from end road to 2nd main		0						
	Ch: (0 - 16)		5	2.50			12.50		
	Ch: (16 - 45)		8	3.80			30.40		
	Ch: (45 - 58)		4	5.80			23.20		
	Ch: (58 - 186)		37	4.50			166.50		
	3rd cross from 2nd main to end road		0						
	Ch: (0 - 55)		16	4.50			72.00		
	Ch: (55 - 113)		17	4.30			73.10		
	2nd cross from 2nd main to end road		0						
	Ch: (0 - 54)		15	3.00			45.00		
	1st cross from 2nd amin to end road		0						
	Ch: (0 - 16)		4	4.20			16.80		
	Ch: (16 - 52)		9	4.00			36.00		
	Ch: (52 - 64)		3	2.50			7.50		
	Sub Total						**2920.30**	**124.20**	**362701.26**
15	Cost towards Design Report and Detailed Estimate,PMC/Third party								**9651890.05**
16	Cost towards DLP								**144778.35**
17	Misellenous and other charges								**193037.80**
	Grand Total								**293.80**
									9990000.00

Certificate:-

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2015-16
4. That the provisions made in the estimate are necessary and quite essential.

Consultant:

For M/s MECADEZ CORE TECHNOLOGIES PVT LTD

Asst. Engineer
Ward No-02
BBMP

AEE
Yelhanka Sub Division
BBMP

Executive Engineer
Yelhanka Division
BBMP